

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-244013

(43)Date of publication of application : 01.09.1992

(51)Int.Cl.

A61K 9/00
A61K 6/033
A61K 45/00
A61K 45/00
A61K 47/02
A61L 27/00
C04B 12/02

(21)Application number : 03-029048

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(22)Date of filing : 31.01.1991

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(54) CALCIUM PHOSPHATE CEMENT HAVING SUSTAINED RELEASABILITY OF MEDICINE

(57)Abstract:

PURPOSE: To obtain a calcium phosphate cement having sustained releasability of medicine, capable of packing in arbitrary place and needing not to take out from a living body after releasing medicine because of excellent operatability and affinity to the living body, reduced in stimulation to the living body and curable in the vicinity of neutrality without impairing effect of a medicine.

CONSTITUTION: In a calcium phosphate cement having sustained releasability of medicine consisting of powder agent and liquid agent, containing a protein, etc., having specific action of a medicine such as antibiotic, anticancer agent or bone forming factor (BMP), a mixture obtained by mixing α type tertiary calcium phosphate with secondary calcium phosphate, preferably secondary calcium phosphate 2 hydrate so that molar ratio of Ca/P may be 1.40-1.498, preferably 1.47-1.495 is used as a main ingredient of powder agent. The mixture is fast reacted in the presence of water in the neutrality of pH6-8 and cured while producing calcium 8 phosphate. As a result, the mixture is reduced in stimulation to living body and the effect of the mixed medicine is not impaired.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]